

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Malcolm Wilson MOON et al.

Title: PRODRUGS OF 3-(PYRROL-2-YLMETHYLIDENE)-2-INDOLINONE DERIVATIVES

Prior Appl. No.: 10/243,942

Prior Appl. Filing Date: 09/16/2002

Examiner: Unassigned

Art Unit: Unassigned

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop PATENT APPLICATION
Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to Pre-OG Notice from Office of Patent Legal Administration dated July 25, 2003, *Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.*

Applicants submit herewith on Form PTO/SB/08 a listing of the documents cited by or submitted to the U.S. PTO in parent application Serial No. 10/243,942, filed 09/16/2002, which is a divisional of Serial No. 09/683,819, filed 05/24/2001. As provided in 37 CFR §1.98(d), copies of the documents are not being provided since they were previously

submitted to the United States Patent & Trademark Office in the above-identified parent application.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

By



Beth A. Burrous
Attorney for Applicant
Registration No. 35,087

Date February 10, 2004
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Customer Number: 22428
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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Prior Application Number	10/243,942
				Prior Appl. Filing Date	09/16/2002
				First Named Inventor	Malcolm Wilson MOON
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	034536-0919
Sheet	1	of	10		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	2,968,557		Burgandt et al.	01-17-1961	
	A2	4,002,749		Rovnyak	01-11-1977	
	A3	4,053,613		Rovnyak et al.	10-11-1977	
	A4	4,642,309		Michel et al.	02-10-1987	
	A5	5,051,417		Nadler et al.	09-24-1991	
	A6	5,124,347	A	Connor et al.	06-23-1992	
	A7	5,196,446	A	Levitzki et al.	03-23-1993	
	A8	5,302,606	A	Spada et al.	04-12-1994	
	A9	5,322,950	A	Sircar et al.	06-21-1994	
	A10	5,374,652	A	Buzzetti et al.	12-20-1994	
	A11	5,382,593	A	Le Baut et al.	01-17-1995	
	A12	5,389,661	A	Sircar et al.	02-14-1995	
	A13	5,397,787	A	Buzzetti et al.	03-14-1995	
	A14	5,409,949	A	Buzzetti et al.	04-25-1995	
	A15	5,792,783	A	Tang et al.	08-11-1998	
	A16	5,834,504	A	Tang et al.	11-10-1998	
	A17	5,849,710	A	Battistini et al.	12-15-1998	
	A18	5,880,141	A	Tang et al.	03-09-1999	
	A19	5,883,113	A	Tang et al.	03-16-1999	
	A20	5,883,116	A	Tang et al.	03-16-1999	

Examiner Signature	Date Considered
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	A21	5,886,020	A	Tang et al.	03-23-1999	
	A22	5,985,868	A	Gray	11-16-1999	
	A23	6,133,305	A	Tang et al.	10-17-2000	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A24	WO	91/13055	A2	FARMITALIA CARLO ERBA SRL	09-05-1991		
	A25	WO	92/07830	A2	PFIZER INC.	05-14-1992		
	A26	WO	92/20642	A1	RHONEPOULENC RORER INTERNATIONAL	11-26-1992		
	A27	WO	93/01182	A1	FARMITALIA CARLO ERA SRL	01-21-1993		
	A28	WO	94/14808	A1	FARMITALIA CARLO ERBA SRL	07-07-1994		
	A29	WO	95/01349	A1	FARMITALIA CARLO ERBA SRL	01-12-1995		
	A30	WO	95/17181	A1	PHARMACIA S.P.A.	06-29-1995		
	A31	WO	96/00226	A1	PHARMACIA S.P.A.	01-04-1996		
	A32	WO	96/16964	A1	PHARMACIA S.P.A.	06-06-1996		
	A33	WO	96/22976	A1	PHARMACIA S.P.A.	08-01-1996		
	A34	WO	96/32380	A1	PHARMACIA S.P.A.	10-17-1996		

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A35	WO	96/40116	A1	SUGEN, INC.	12-19-1996		
	A36	WO	97/25986	A1	TAIHO PHARMACEUTICAL CO., LTD.	07-24-1997		
	A37	WO	98/07695	A1	SUGEN, INC.	02-26-1998		
	A38	WO	98/24432	A2	SUGEN, INC.	06-11-1998		
	A39	WO	98/38984	A2	SUGEN, INC.	09-11-1998		
	A40	WO	98/50356	A1	SUGEN, INC.	11-12-1998		
	A41	WO	99/10325	A1	GLAXO GROUP LIMITED	03-04-1999		
	A42	WO	99/52869	A1	BOEHRINGER INGELHEIM PHARMA KG	10-21-1999		
	A43	WO	99/61422	A1	SUGEN, INC.	12-02-1999		
	A44	WO	99/65869	A1	BAYER AKTIENGESELLSCHAFT	12-23-1999		
	A45	WO	00/08202	A2	SUGEN, INC.	02-17-2000		
	A46	WO	00/35906	A2	F. HOFFMAN-LA ROCHE AG	06-22-2000		
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	A49	WO	00/38519	A1	SUGEN, INC.	07-06-2000		
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	A51	WO	01/60814	A2	SUGEN, INC.	08-23-2001		
	A52	WO	01/94624	A1	ORTHO-McNEIL PHARMACEUTICALS, INC.	12-13-2001		

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(use as many sheets as necessary)						
Sheet	4	of	10		Attorney Docket Number	034536-0919

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		Office ³	Number ⁴	Kind Code ⁵ (if known)			
	A53	DE	878,539		Von FREYBERG, et al.	06-05-1953	
	A54	DE	2,159,360	A	BAYER AG	06-14-1973	
	A55	DE	2,159,361	A	BAYER AG	06-14-1973	
	A56	DE	2,159,362		BAYER AG	06-14-1973	
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	A62	EP	0 525 472	A2	FARMITALIA CARLO ERBA SRL	02-03-1993	
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	A66	EP	0 788 890	A1	AGFA-GEVAERT	08-13-1997	
	A67	EP	0 934 931	A2	SUGEN, INC.	08-11-1999	
	A68	EP	1 082 305	A1	SUGEN, INC.	03-14-2001	
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	A70	FR	1.599.772		INSTITUT PASTEUR	08-28-1970	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)			
	A71	FR	2,689,397	A1	ADIR ET COMPAGNIE	10-08-1993	
	A72	GB	809,691		Roy HULL	03-04-1959	
	A73	GB	835,473		Norman SENIOR	05-18-1960	
	A74	JP	62-29570	A	KANEKA CHEM KK	02-07-1987	
	A75	JP	62-39564	A	KANEKA CHEM KK	02-20-1987	
	A76	JP	63-141955	A	KANEKA CHEM KK	06-14-1988	
	A77	JP	5-58894	A	KANEKA CORP	03-09-1993	
	A78	CA	2,012,634	A1	UNIVERSITY OF BRITISH COLUMBIA	09-20-1991	
	A79	AU	286870		IMPERIAL CHEMICAL INDUSTRIES OF AUSTRALIA AND NEW ZEALAND LIMITED	05-11-1967	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.					T ⁶
	A80	ANDREANI et al., "Potential Antitumor Agents. 25[1]. Synthesis and Cytotoxic Activity of 3-(2-Chloro-3-Indolymethylene)1,3-Dihydroindol-2-Ones," <u>Anticancer Research</u> 16:3585-3588 (1996) Elsevier, Paris					
	A81	ANDREANI et al., "Synthesis and cardiotonic activity of 2-indolinones," <u>Eur. J. Med. Chem.</u> 25:187-190 (1990)					
	A82	ANDREANI et al., "Synthesis and cardiotonic activity of 2-indolinones bearing pyridyl groups," <u>Eur. J. Med. Chem.</u> 28:653-657 (1993) Elsevier, Paris					
	A83	ANDREANI et al., "Synthesis and cardiotonic activity of pyridylmethylene-2-indolinones," <u>Eur. J. Med. Chem.</u> 27:167-170 (1992) 8 Elsevier, Paris					

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	A84	ANDREANI et al., "Synthesis and potential coanthracycline activity of substituted 3-(5-imidazo[2,1-b]thiazolylmethylene)-2-indolinones," <u>Eur. J. Med. Chem.</u> 32:919-924 (1997) Elsevier, Paris		T ⁶
	A85	ANDREANI et al., "Synthesis of lactams with potential cardiotonic activity," <u>Eur. J. Med. Chem.</u> 28:825-829 (1993)		
	A86	ANDREANI et al., "In Vivo Cardiotonic Activity of Pyridylmethylene-2-indolinones," <u>Arzneimittel-Forschung Drug Research</u> 48:727-729 (1998) 8		
	A87	BAHNER and BROTHERTON, "6-Dimethylaminochrysene and Other Analogs of 4-(4-Dimethylamino)stilbene," <u>J. Med. Chem.</u> 12:722-723 (1969)		
	A88	BAHNER et al., "Benzylideneindenes with Oxygen Attached to the Indene Ring," <u>J. Med. Chem.</u> 12:721-722 (1969)		
	A89	BAMFIELD et al., "Diels-Alder Reactions of Oxindolylideneacetone," <u>J. Chem. Soc. (C)</u> 1028-1030 (1966) 8		
	A90	BORSCHE et al., "Über vielkernige kondensierte Systeme mit heterocyclischen Ringen. XIII.," <u>Liebigs Ann. Chem.</u> 550:160-174 (1941)		
	A91	BUZZETTI et al., "Cinnamamide Analogs as Inhibitors of Protein Tyrosine Kinases," <u>Il Farmaco</u> 48:615-636 (1993)		
	A92	CHATDEN et al., "Substituted Oxindoles. Part VI. Polarographic Reduction of Substituted <i>trans</i> -3-Benzylideneindol-2(3H)-ones," <u>J. Chem. Soc. Perkin II</u> : 469-473 (1973)		
	A93	CODA et al., "3-(4-methylbenzilidene)-1,3-dihydroindol-2-one," <u>Journal of the Chemical Society, Perkin Transactions 2</u> 4:615-620 (1984) DATABASE CROSSFIRE, Beilstein Reference No. 6-21		
	A94	DECODTS et al., "Suicide inhibitors of proteases. Lack of activity of halomethyl derivatives of some aromatic lactams," <u>Eur. J. Med. Chem.</u> 18: 107-111 (1983)		
	A95	DESIMONI et al., "Catalysis with Inorganic Cations. V ¹ Intramolecular Hetero Diels-Alder versus Ene Reactions: Effect of Magnesium perchlorate on Chemoselectivity," <u>Tetrahedron</u> 52(36) 12009-12018 (1196) 8 Pergamon		

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
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	A96	ELLIOTT and RIVERS, "Reduction of Some Oxindolylidene Derivatives to 3-Substituted Oxindoles by Sodium Borohydride," <u>J. Med. Chem.</u> 29:2438-2440 (1964)		T ⁶
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Prior Application Number	10/243,942
				Prior Appl. Filing Dat	09/16/2002
				First Named Inv ntor	Malcolm Wilson MOON
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
(use as many sheets as necessary)				Attorney Docket Number	034536-0919
Sheet	8	of	10		

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Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ⁶
	A108	MOHAMMADI et al., "Structures of the Tyrosine Kinase Domain of Fibroblast Growth Factor Receptor in Complex with Inhibitors," <u>Science</u> 276:955-960 (1997) 8 American Association for the Advancement of Science		
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Sheet	9	of	10	First Named Inventor	Malcolm Wilson MOON
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	034536-0919

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	A120	SUN et al., "Design, Synthesis, and Evaluations of Substituted 3-[(3- or 4-Carboxyethyl)pyrrol-2-yl]methylidene]indolin-2-ones as Inhibitors of VEGF, FGF, and PDGF Receptor Tyrosine Kinases," <u>Journal of Medicinal Chemistry</u> 42: 5120-5130 (1999) 8American Chemical Society	
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